

Listing of Claims:

1. (Currently Amended) A solid electrolytic capacitor
comprising:

a lead wire;

an anode member ~~formed by~~ comprising a sintered member of a
5 valve-action metal powder ~~and embedded therein~~ having the lead
wire embedded therein;

a dielectric layer formed on a surface of the anode member;

a first electrolyte ~~layer~~ element in an electrolyte layer
formed on the dielectric layer and defining a plurality of
10 cavities;

non-conductive particles dispersed in the cavities defined
by the first electrolyte element;

a second electrolyte element provided in the electrolyte
layer so as to surround the non-conductive particles;

15 a cathode member formed on the first electrolyte layer such
that particles of a material of the cathode member are dispersed
in the electrolyte layer;

a silver paste layer formed on the cathode member;

external terminals respectively connected to the lead wire
20 and the silver paste layer; and

a resin package molded so as to expose the external terminals, ~~in which the first electrolyte layer includes particles constituting the cathode member,~~

25 ~~said solid electrolytic capacitor further comprising non-conductive particles between the dielectric layer and the cathode member except of the first electrolyte layer, and a second electrolyte layer formed between the dielectric layer and the cathode member, wherein the second electrolyte layer is formed so as to contain the non-conductive particles.~~

2. (Currently Amended) A solid electrolytic capacitor according to claim 1, comprising:

a lead wire;

5 an anode member comprising a sintered member of a valve-action metal powder having the lead wire embedded therein;

a dielectric layer formed on a surface of the anode member;

a first electrolyte element in an electrolyte layer formed on the dielectric layer and defining a plurality of cavities;

10 non-conductive particles dispersed in the cavities defined by the first electrolyte element;

a second electrolyte element provided in the electrolyte layer so as to surround the non-conductive particles;

a cathode member formed on the electrolyte layer such that
particles of a material of the cathode member are dispersed in
15 the electrolyte layer;

a silver paste layer formed on the cathode member; and
external terminals respectively connected to the lead wire
and the silver paste layer;

wherein ~~[[:]]~~ the non-conductive particles are also
20 positioned in an area defined by a recess in the dielectric
layer, and said second electrolyte layer element is formed
provided in the electrolyte layer after said non-conductive
particles are positioned in ~~an~~ the area ~~constituting a~~ defined by
the recess on in said dielectric layer.

3. (Currently Amended) A solid electrolytic capacitor
~~according to claim 1,~~ comprising:

a lead wire;
an anode member comprising a sintered member of a valve-
5 action metal powder having the lead wire embedded therein;
a dielectric layer formed on a surface of the anode member;
a first electrolyte element in an electrolyte layer formed
on the dielectric layer and defining a plurality of cavities;
non-conductive particles dispersed in the cavities defined
10 by the first electrolyte element;

a second electrolyte element provided in the electrolyte layer so as to surround the non-conductive particles;

a cathode member formed on the electrolyte layer such that particles of a material of the cathode member are dispersed in the electrolyte layer;

a silver paste layer formed on the cathode member; and external terminals respectively connected to the lead wire and the silver paste layer;

wherein said second electrolyte ~~layer element~~ is formed provided in the electrolyte layer after said non-conductive particles are positioned; and in such a continuous manner that

wherein a distance from an interface between said ~~first~~ electrolyte layer and said dielectric layer to a surface of said anode member is smaller than an ~~averaged~~ average thickness of said ~~first~~ electrolyte layer.

4. (Currently Amended) A The solid electrolytic capacitor according to claim 2, wherein said non-conductive particles are also positioned on ~~the~~ a surface of said dielectric layer ~~and in said first electrolyte layer,~~ and said second electrolyte element ~~layer being formed, whereby is provided so as to prevent~~ said cathode member ~~and from contacting~~ said non-conductive particles ~~are not in a direct contact.~~

5. (Currently Amended) A The solid electrolytic capacitor according to claim 1, wherein said non-conductive particles have an ~~averaged~~ average size which is smaller than an ~~averaged~~ average size of the particles ~~constituting of the material~~ of said cathode member.

6. (Currently Amended) A The solid electrolytic capacitor according to claim 1, wherein said valve action metal is ~~any~~ one of Nb, Al, Ta, Ti, Hf and Zr.

7. (Currently Amended) A The solid electrolytic capacitor according to claim 1, wherein said first electrolyte ~~layer~~ element includes at least one of a conductive ~~polymers~~ polymer formed by polymerizing ~~at least one of~~ pyrrole ~~[[,]]~~ and a conductive polymer formed by polymerizing thiophene ~~and derivatives thereof~~.

8. (Currently Amended) A The solid electrolytic capacitor according to claim 7, wherein said ~~first~~ electrolyte layer includes a conductive powder ~~constituted by~~ comprising at least one of SnO₂ powder, ~~and~~ ZnO powder, ~~or~~ and a carbon-based
5 conductive filler ~~constituted by~~ comprising at least one of carbon black, graphite and carbon fibers.

9. (Currently Amended) ~~A~~ The solid electrolytic capacitor according to claim 8, wherein said conductive powder ~~is covered by~~ comprises the at least one of the SnO₂ powder and the ZnO powder covering at least either one of TiO₂ and BaSO₄ BaSO₄.

10. (Currently Amended) ~~A~~ The solid electrolytic capacitor according to claim 7, wherein said ~~first~~ electrolyte layer includes a carbon-based conductive filler ~~constituted by~~ comprising at least one of carbon black, graphite and carbon fibers.

11. (Currently Amended) ~~A~~ The solid electrolytic capacitor according to claim 1, wherein said second electrolyte ~~layer element is formed by presence of a~~ comprises a conductive polymer ~~including~~ which surrounds the non-conductive particles, and wherein said second electrolyte element is provided between (i) a surface of at least one of said dielectric layer ~~or~~ and said cathode member, and (ii) ~~graphite~~ the particles of the material of the cathode member which are dispersed in the electrolyte layer.

12. (Currently Amended) ~~A~~ The solid electrolytic capacitor according to claim 1, wherein said cathode member ~~is formed by~~ comprises graphite.

12. (Currently Amended) ~~A~~ The solid electrolytic capacitor according to claim 1, wherein said cathode member ~~is formed by~~ comprises graphite.

13. (Currently Amended) A method of producing a solid electrolytic capacitor, said method comprising ~~the steps of:~~

sintering a valve-action metal powder while embedding a lead wire therein to form an anode member;

5 forming a dielectric layer on a surface of said anode member;

forming ~~a first~~ an electrolyte layer, including a first electrolyte element, on said dielectric layer of said anode member;

10 immersing said anode member having the ~~first~~ electrolyte layer formed thereon in a colloid solution in which non-conductive colloid particles are dispersed, ~~followed by~~ and then drying said anode member;

15 ~~forming~~ providing a second electrolyte element in the electrolyte layer; ~~and~~

forming a cathode member so as to sandwich said ~~first~~ electrolyte layer ~~and said second electrolyte layer with~~ between said cathode layer and said dielectric layer,

20 ~~then~~ forming a silver paste layer on said cathode member, and then

connecting external terminals respectively with said lead wire and said silver paste layer and applying a resin mold so as to expose said external terminals.

14. (Currently Amended) The method according to claim 13, wherein said immersion ~~step~~ of the anode member in the colloid solution causes the non-conductive particles to be present between said dielectric layer and said first electrolyte element layer.

15. (Currently Amended) The method according to claim 13, wherein said immersion ~~step~~ of the anode member in the colloid solution causes the non-conductive particles to be present in an area ~~constituting~~ defined by a recess on ~~the~~ a surface of said dielectric layer.

16. (Currently Amended) The method according to claim 13, wherein said immersion ~~step~~ is carried out under a ~~reduced~~ pressure ~~, and causes~~ such that the non-conductive particles ~~to be~~ are present in an area on ~~the~~ a surface of said dielectric layer where a distance from an interface between said first electrolyte layer and said dielectric layer to ~~the~~ a surface of said anode member is smaller than an ~~averaged~~ average thickness of said dielectric layer.

17. (Currently Amended) The method according to claim 13, wherein said non-conductive particles have an ~~averaged~~ average size which is smaller than an ~~averaged~~ average size of particles ~~constituting of a material of~~ said cathode member.

18. (Currently Amended) The method according to claim 13, wherein ~~in~~ at least one of ~~the steps of forming~~ said first electrolyte element and said second electrolyte ~~layers, element~~ comprise at least one of a conductive ~~polymers, use is made of at~~ least one of polymer polymerized from pyrrole, and a conductive ~~polymers polymer~~ polymer polymerized from ~~at least one of pyrrole,~~ thiophene ~~, and derivatives thereof.~~

19. (Currently Amended) ~~A~~ The solid electrolytic capacitor according to claim 3, wherein said non-conductive particles are also positioned on ~~the~~ a surface of said dielectric layer ~~and in~~ said first electrolyte layer, and said second electrolyte element ~~layer being formed, whereby~~ is provided so as to prevent said cathode member ~~and~~ from contacting said non-conductive particles ~~are not in a direct contact.~~